

FIG.1

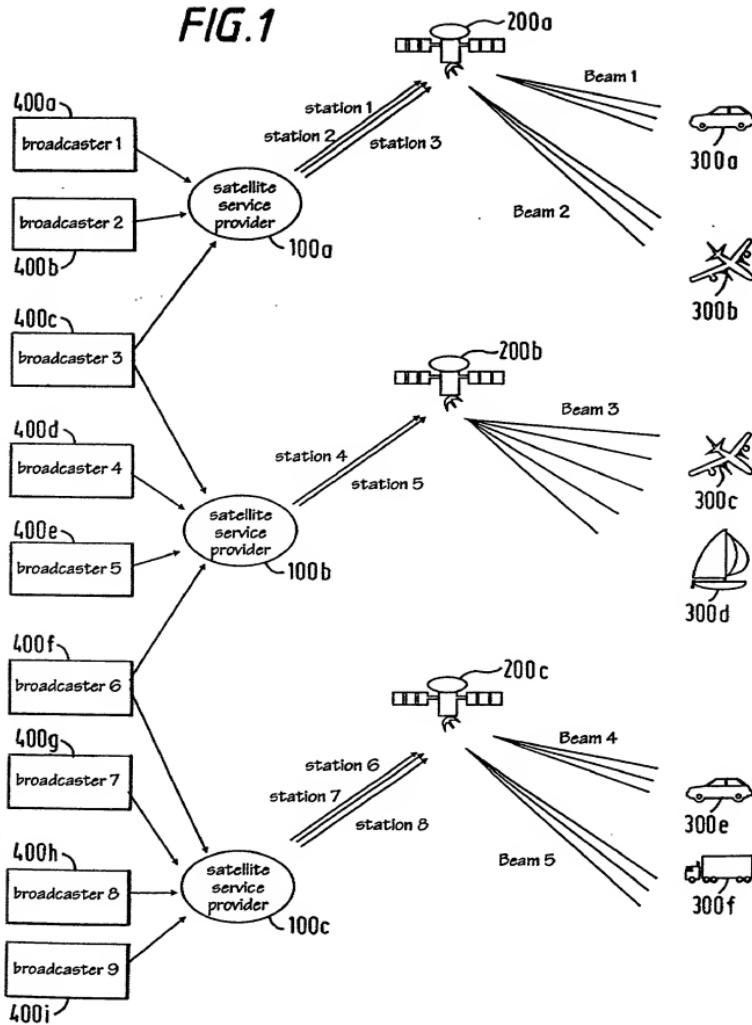


FIG. 2

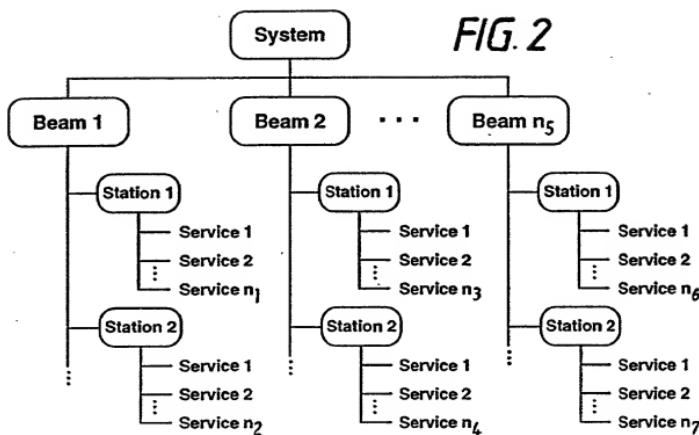


FIG. 3

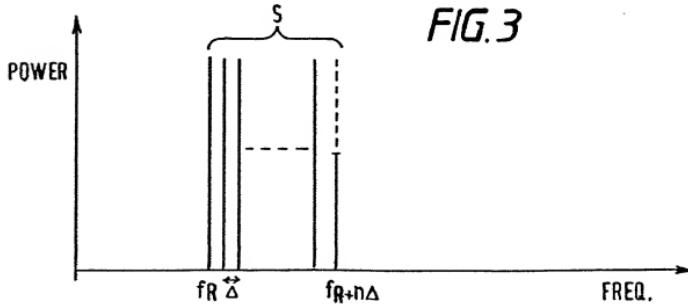
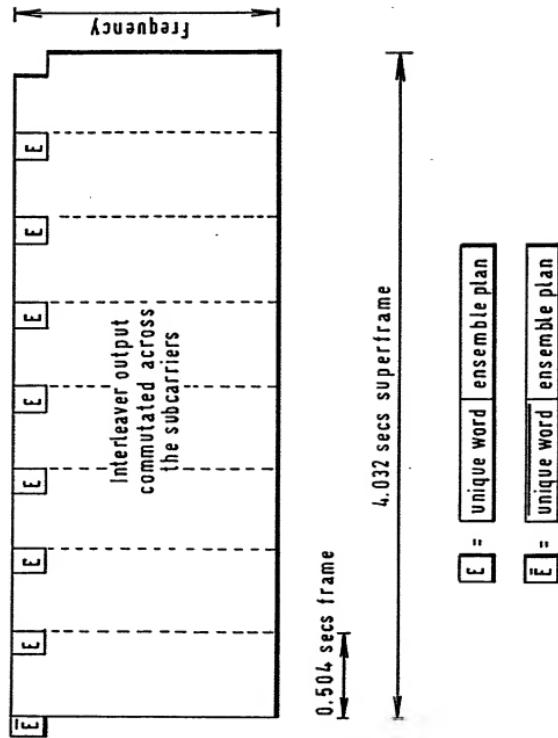
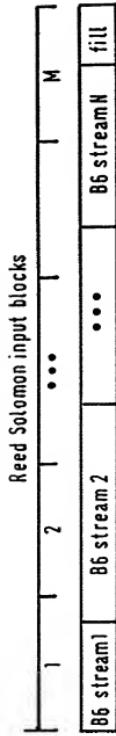


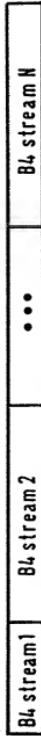
FIG. 4



a) format of the multiplexed B6 stream



b) format of the multiplexed B4 stream



c) format of the multiplexed services stream



FIG. 5

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FIG.6a

ensemble configur.	transmitted subcarriers																
	MR=main ref; R,r=ref; D,d=data uppercase=full, lowercase=half																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0	MR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1	MR	d	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2	MR	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3	MR	D	d	.	.	.	.	.	.	.	.	.	.	.	.	.	.
4	MR	D	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5	MR	D	D	r	.	.	.	.	.	.	.	.	.	.	.	.	.
6	MR	D	D	R	.	.	.	.	.	.	.	.	.	.	.	.	.
7	MR	D	D	R	d	.	.	.	.	.	.	.	.	.	.	.	.
8	MR	D	D	R	D	.	.	.	.	.	.	.	.	.	.	.	.
9	MR	D	D	R	D	d	.	.	.	.	.	.	.	.	.	.	.
10	MR	D	D	R	D	D	.	.	.	.	.	.	.	.	.	.	.
11	MR	D	D	R	D	D	r	.	.	.	.	.	.	.	.	.	.
12	MR	D	D	R	D	D	R	.	.	.	.	.	.	.	.	.	.
13	MR	D	D	R	D	D	R	d	.	.	.	.	.	.	.	.	.
14	MR	D	D	R	D	D	R	D	.	.	.	.	.	.	.	.	.
15	MR	D	D	R	D	D	R	D	d	.	.	.	.	.	.	.	.
16	MR	D	D	R	D	D	R	D	D	r	.	.	.	.	.	.	.
17	MR	D	D	R	D	D	R	D	D	D	r	.	.	.	.	.	.
18	MR	D	D	R	D	D	R	D	D	D	R	d	.	.	.	.	.
19	MR	D	D	R	D	D	R	D	D	R	R	d	.	.	.	.	.
20	MR	D	D	R	D	D	R	D	D	R	R	d	.	.	.	.	.
21	MR	D	D	R	D	D	R	D	D	R	R	d	.	.	.	.	.
22	MR	D	D	R	D	D	R	D	D	R	R	d	.	.	.	.	.
23	MR	D	D	R	D	D	R	D	D	R	R	d	r	.	.	.	.
24	MR	D	D	R	D	D	R	D	D	R	R	d	r	.	.	.	.
25	MR	D	D	R	D	D	R	D	D	R	R	d	r	d	.	.	.
26	MR	D	D	R	D	D	R	D	D	R	R	d	r	d	.	.	.
27	MR	D	D	R	D	D	R	D	D	R	R	d	d	d	d	d	.
28	MR	D	D	R	D	D	R	D	D	R	R	d	d	d	d	d	.
29	MR	D	D	R	D	D	R	D	D	R	R	d	d	d	d	d	r
30	MR	D	D	R	D	D	R	D	D	R	R	d	d	d	d	d	r
31	MR	D	D	R	D	D	R	D	D	R	R	d	d	d	d	d	d
32	MR	D	D	R	D	D	R	D	D	R	R	d	d	d	d	d	d

→ Frequency

FIG. 6b

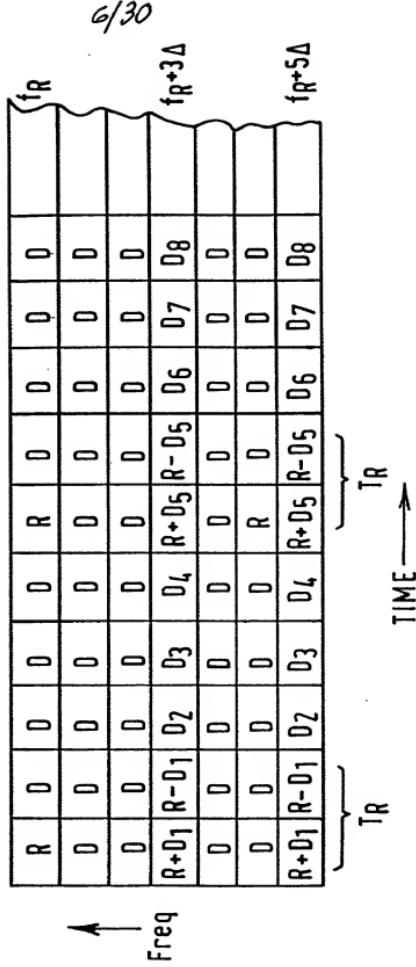
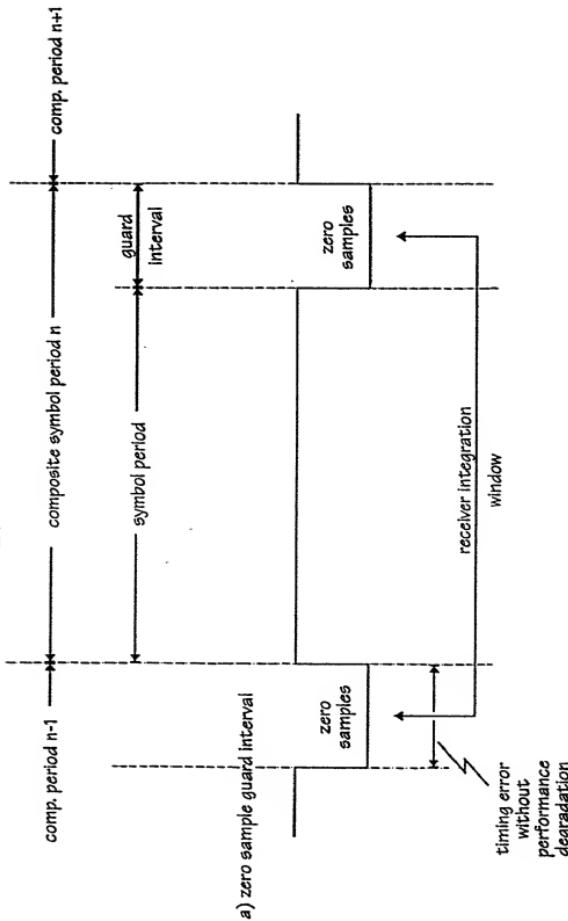


FIG. 7



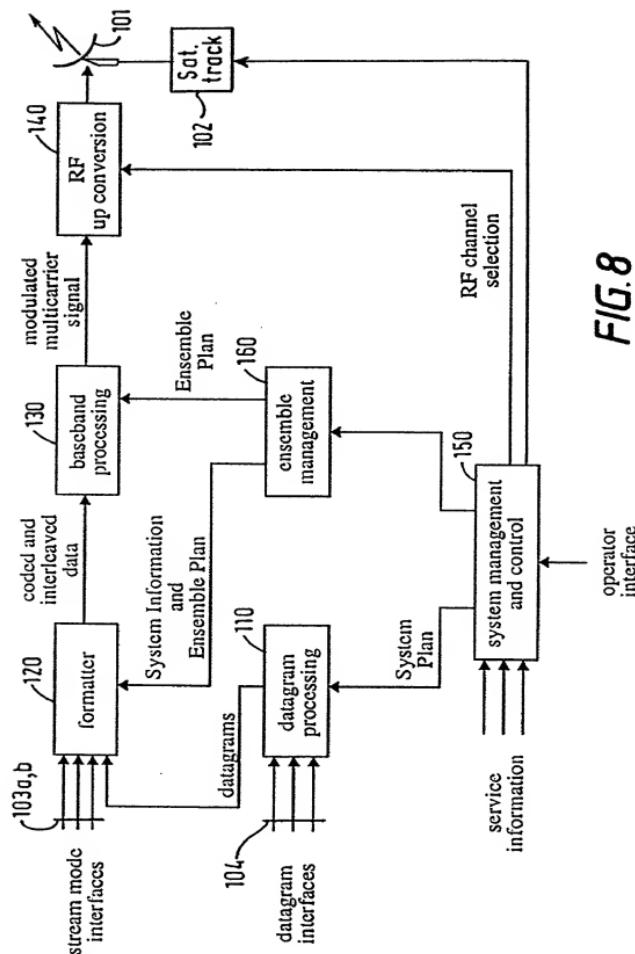


FIG. 9

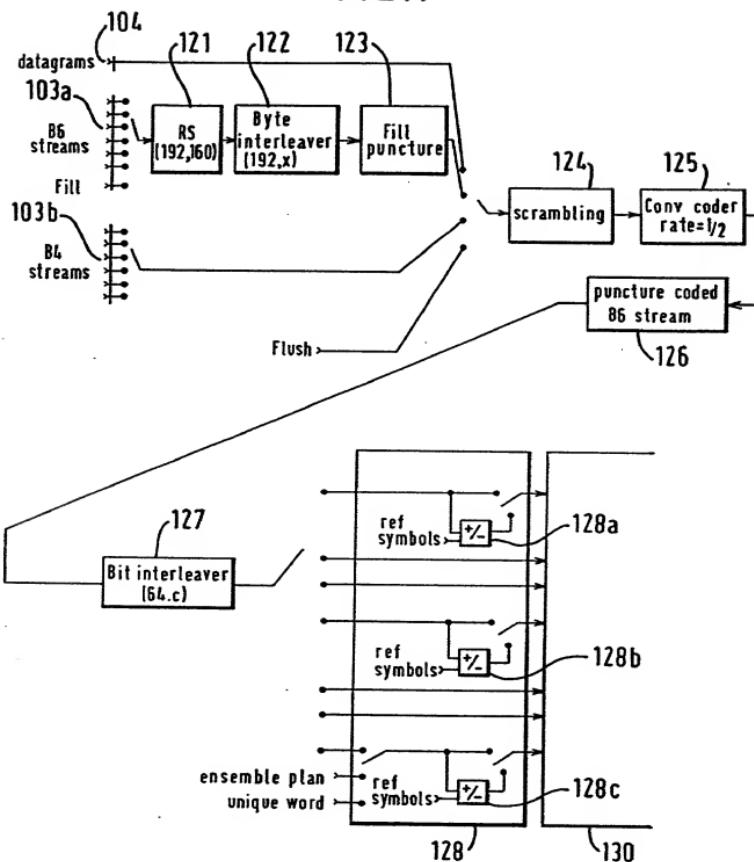
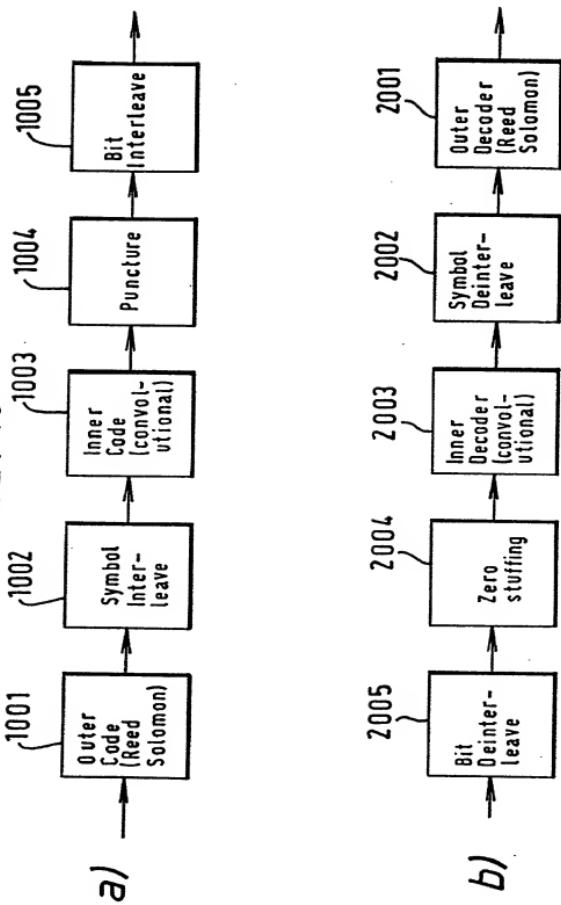


FIG. 10



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FIG. 11

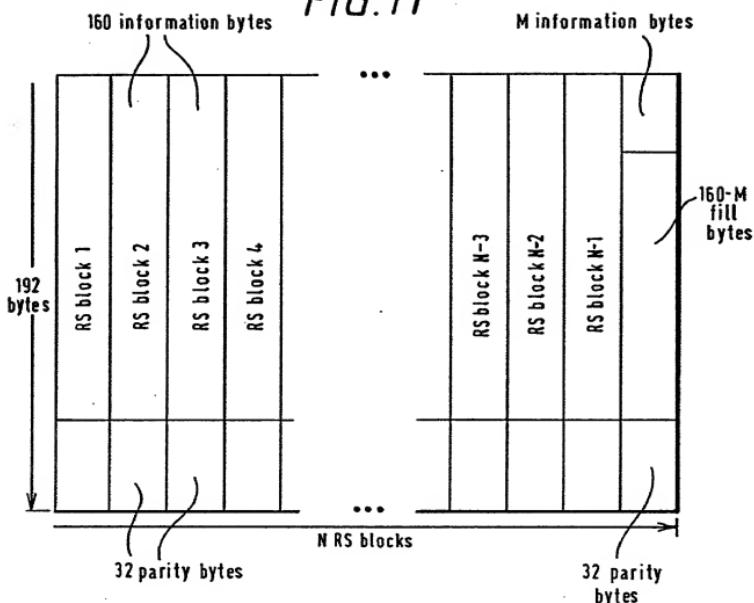


FIG. 12

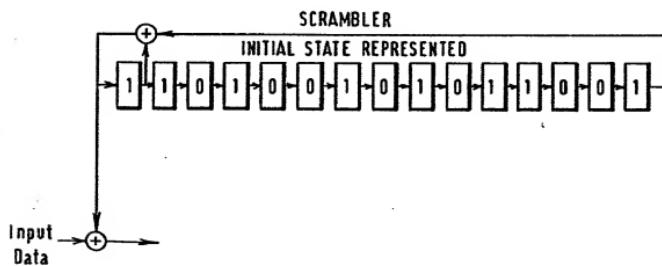


FIG. 13

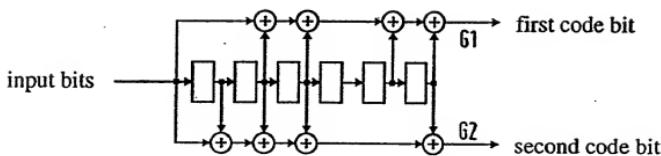


FIG. 14

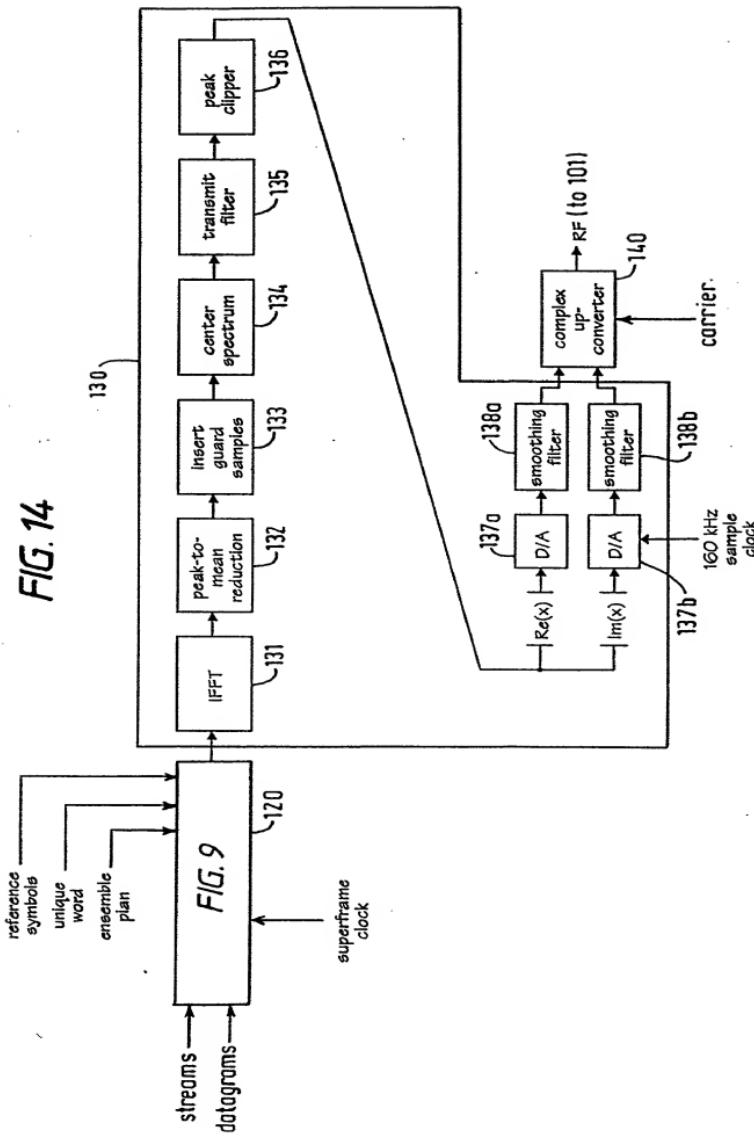


FIG. 15a

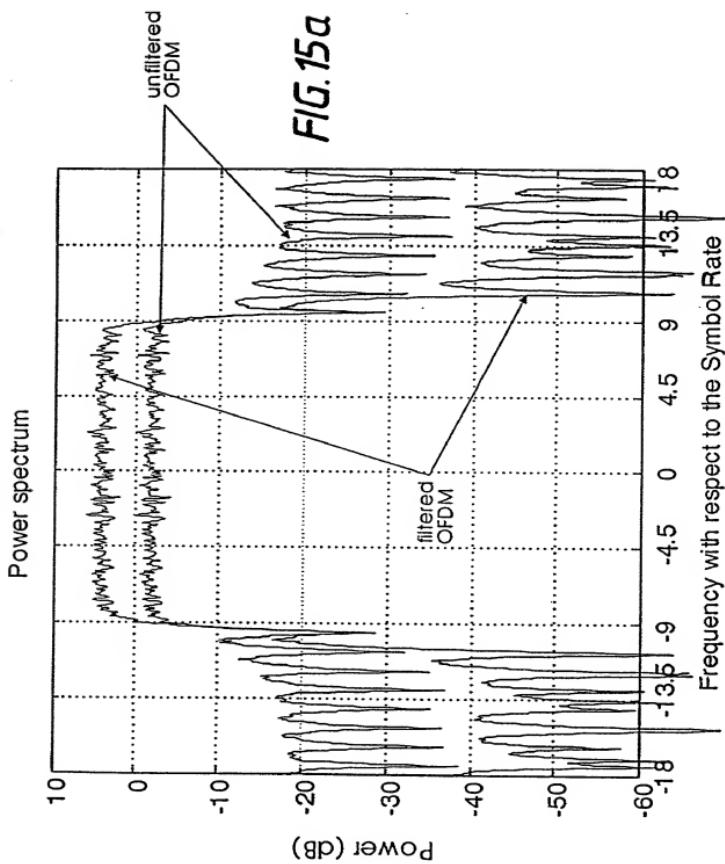
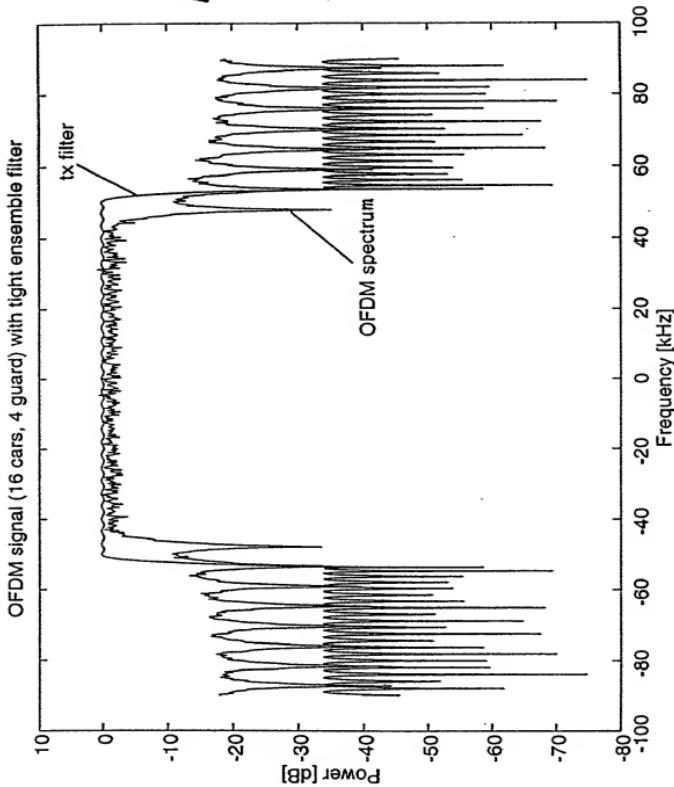
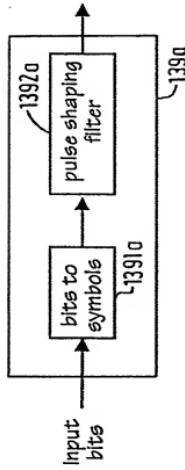


FIG.15b



single subcarrier signal processing

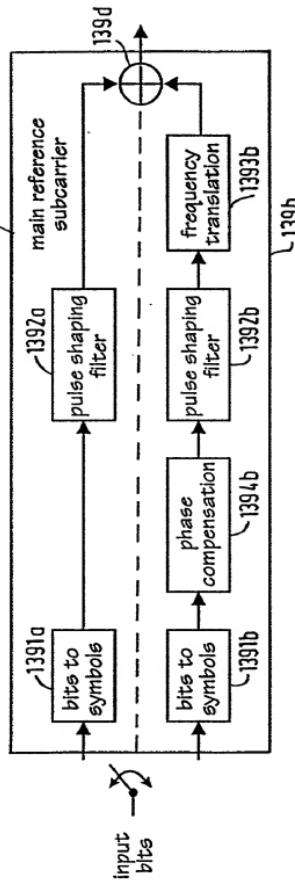
FIG. 16a



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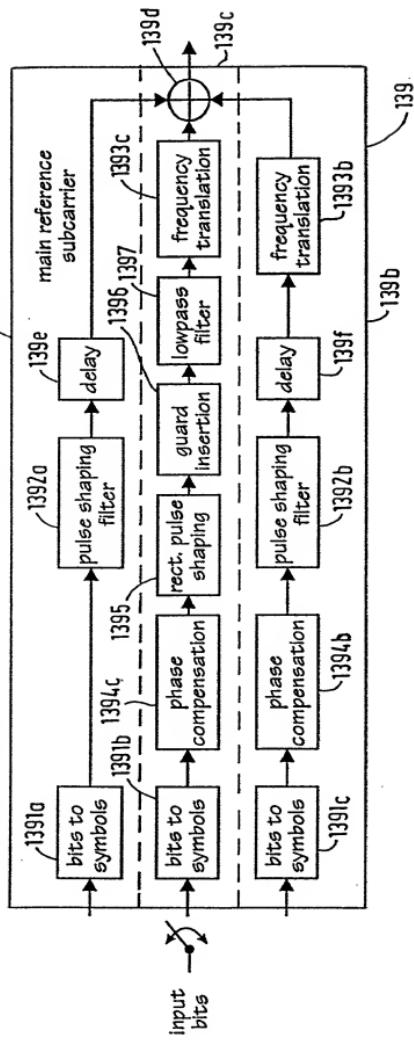
two subcarrier signal processing

FIG. 16b



three subcarrier signal processing

FIG. 16C



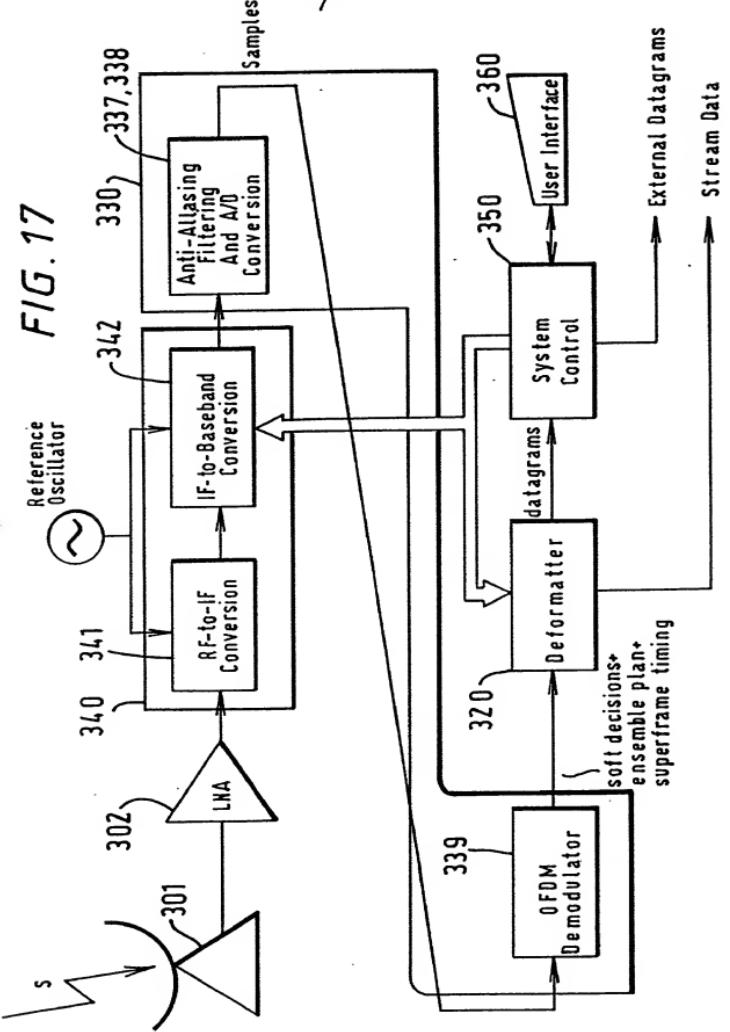
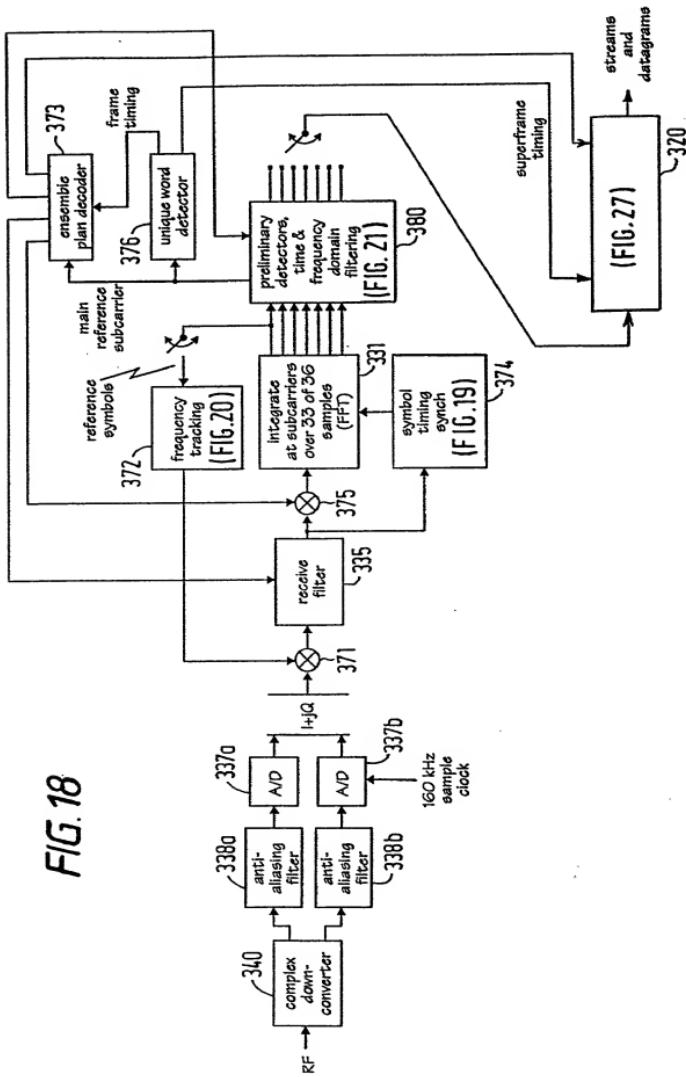
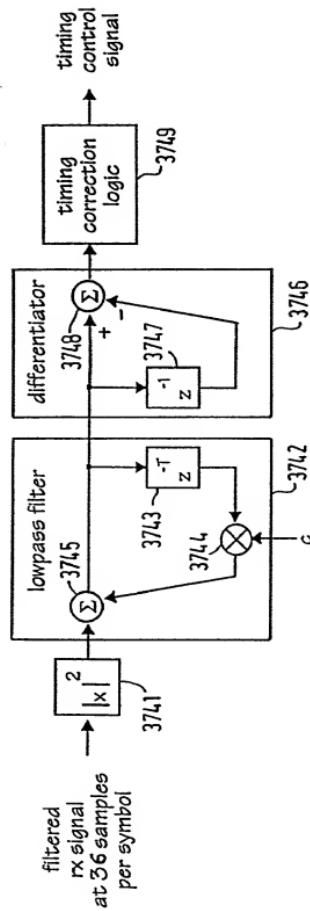


FIG. 18



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FIG. 19



reference samples
complex baseband
input signal

FIG. 20

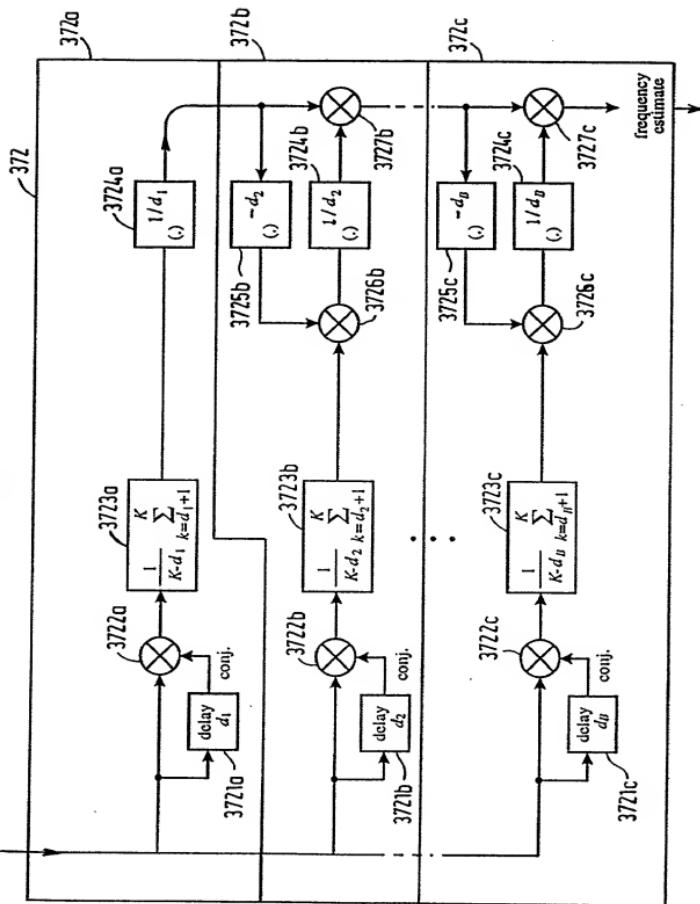
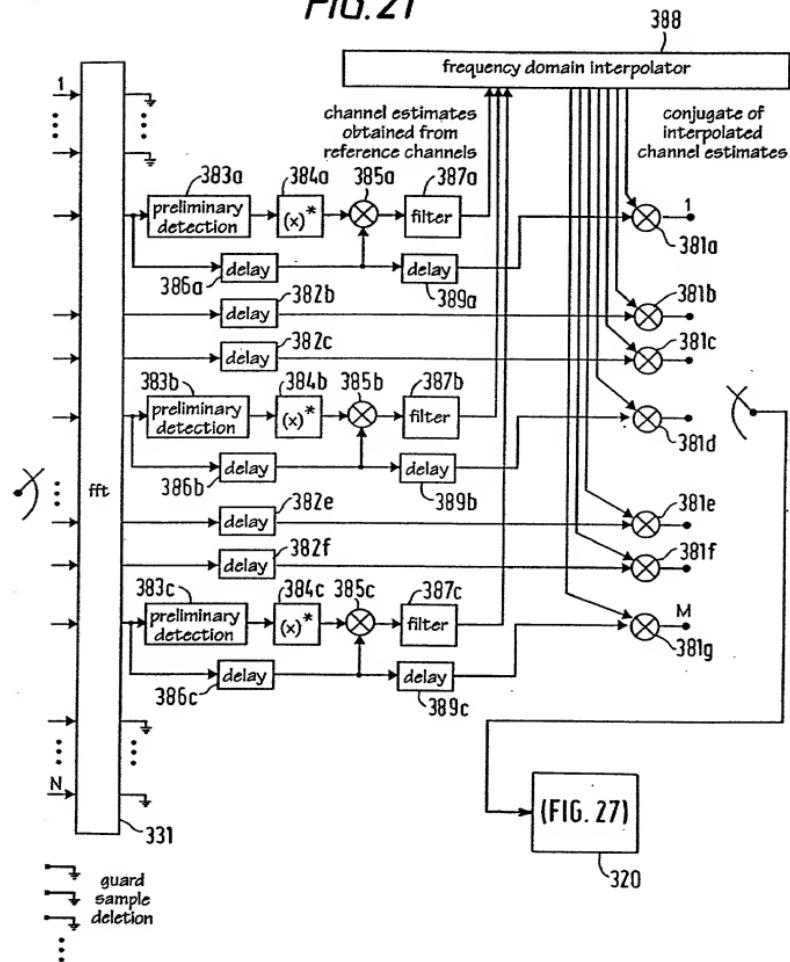


FIG. 21



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FIG.22

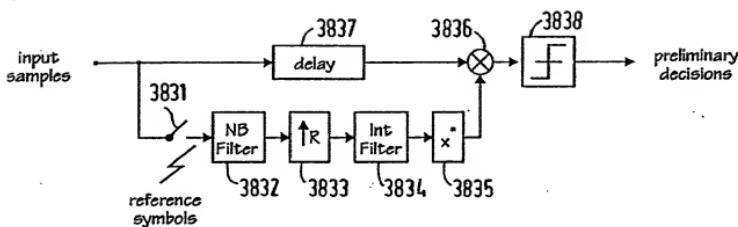
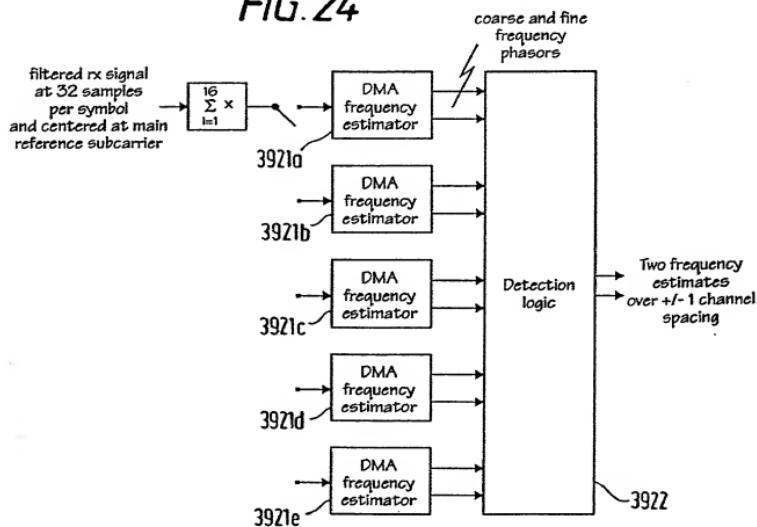


FIG.24



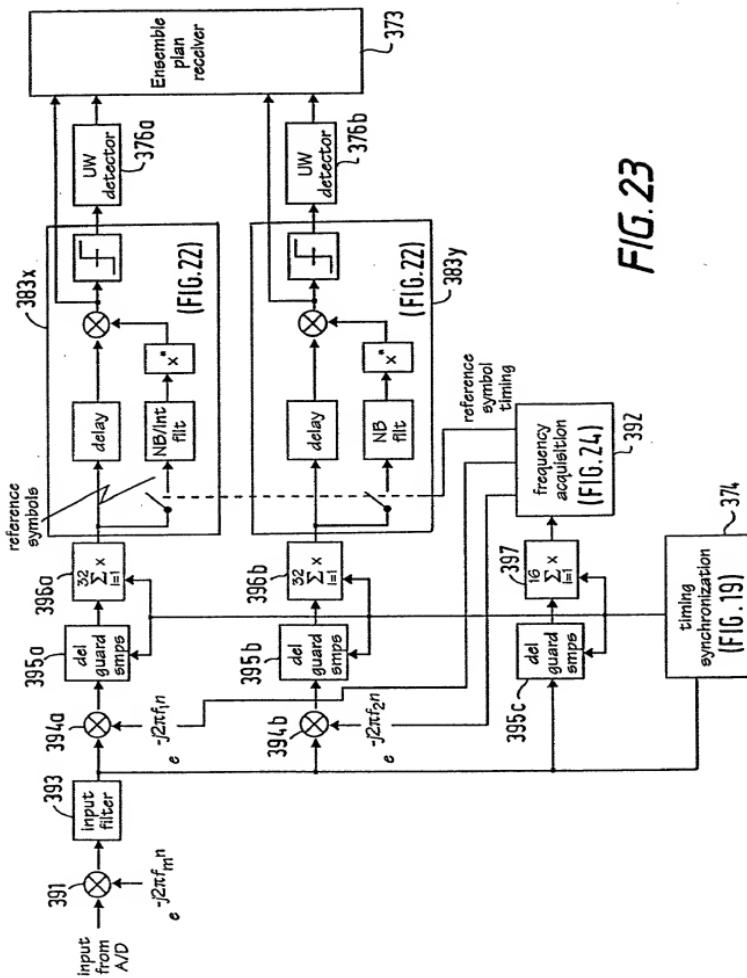


FIG. 25

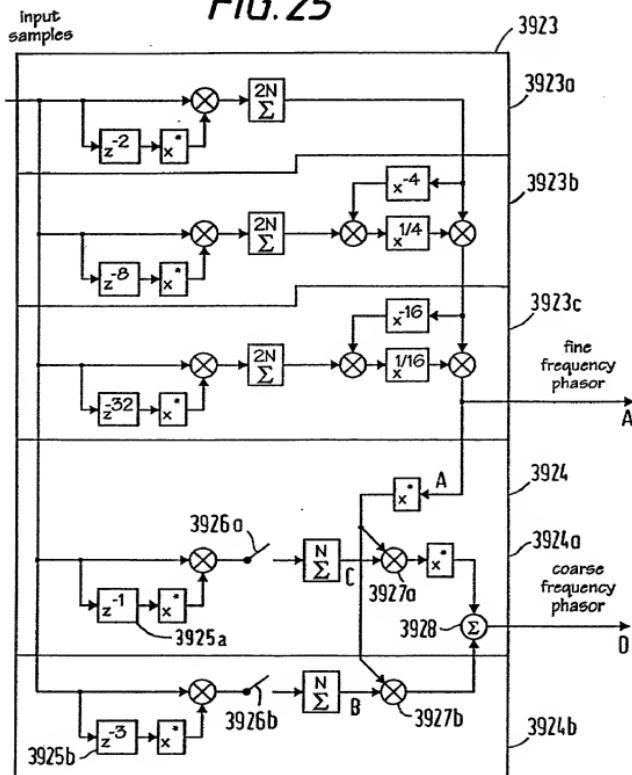
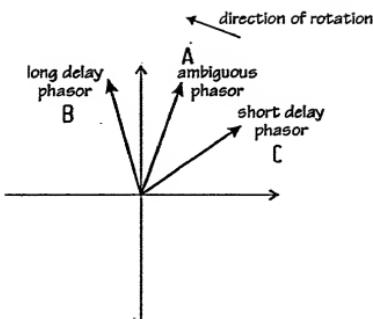
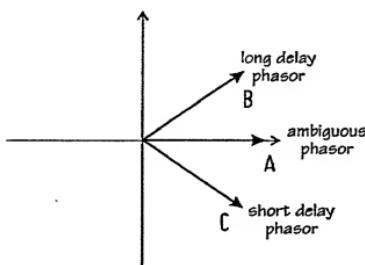


FIG. 26

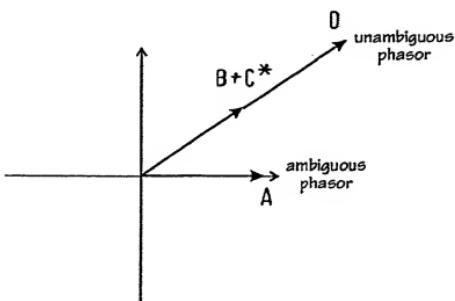
a) long and short delay phasors relative to the ambiguous phasor



b) long and short delay phasors after rotation by the ambiguous phasor



c) final unambiguous frequency phasor



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FIG. 27

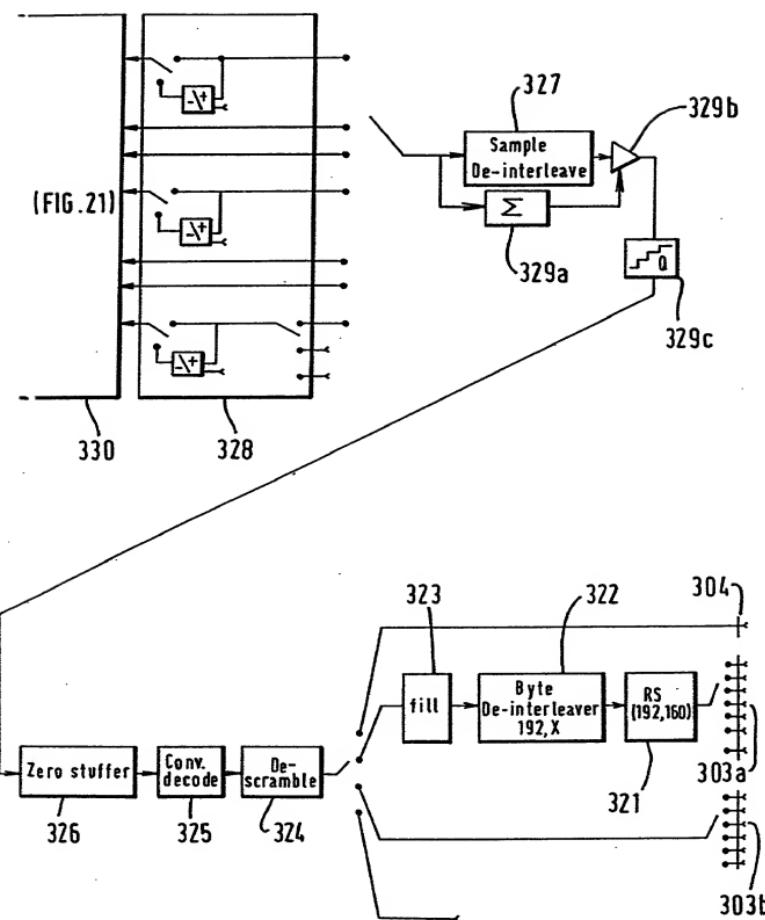


FIG. 28

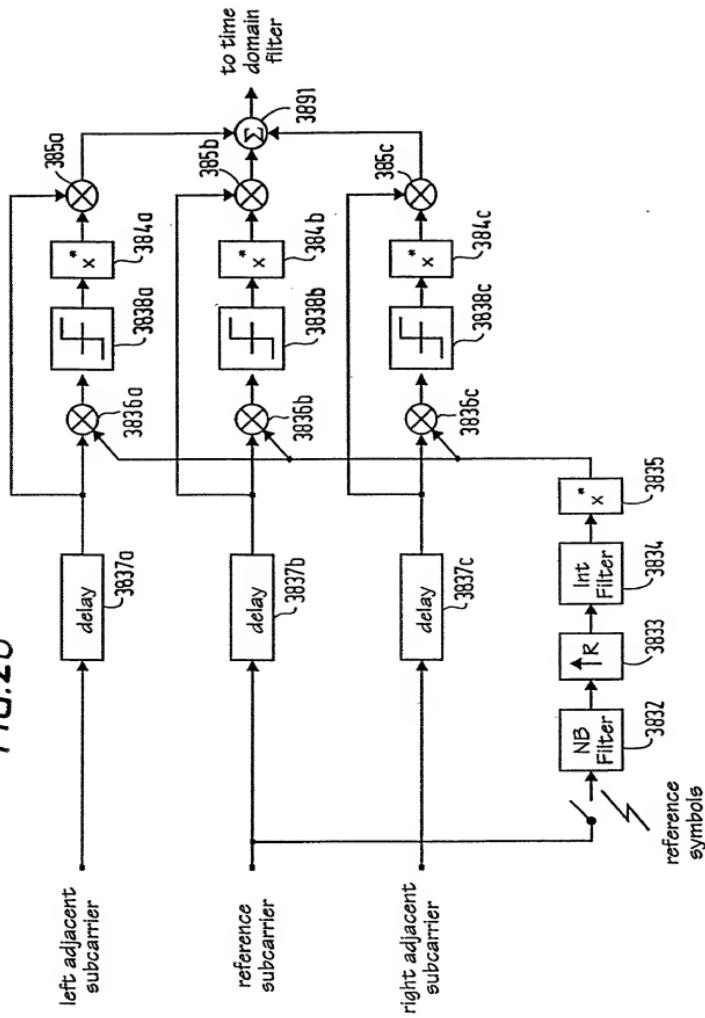
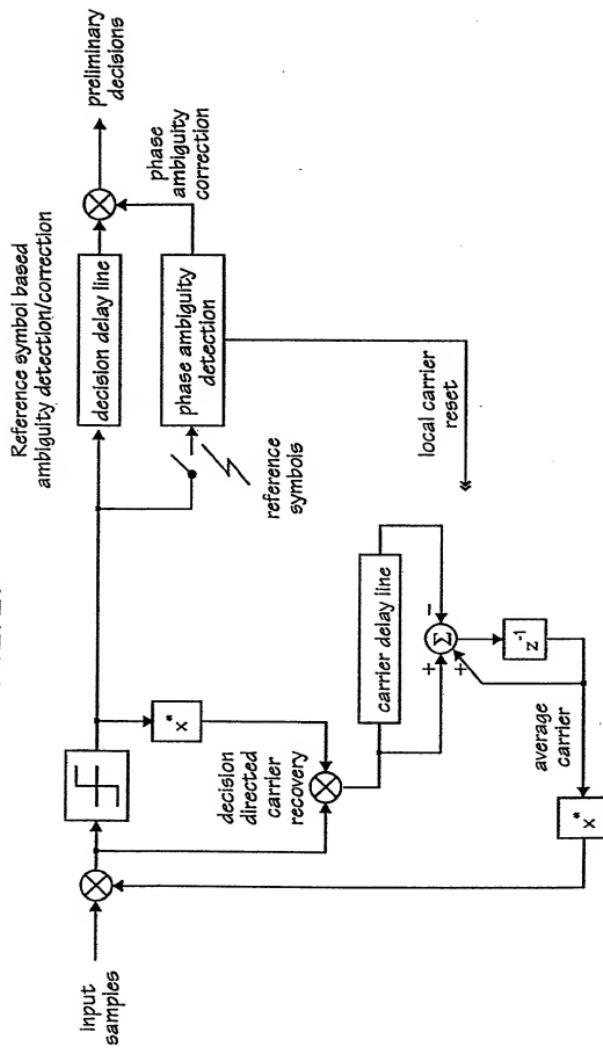


FIG. 29a



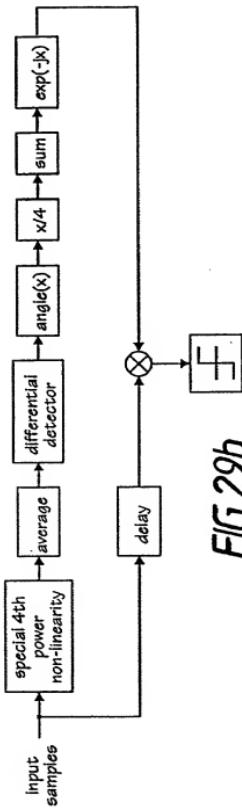


FIG. 29b

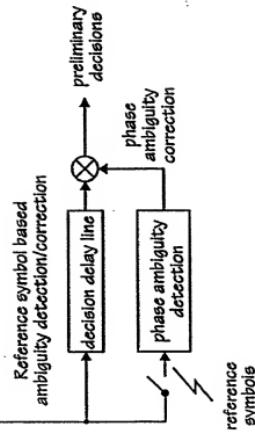


FIG. 29c

